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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/811,628	03/29/2004	Tapesh Yadav	037768-0234	. 2732	
22428 7590 01/29/2007 FOLEY AND LARDNER LLP SUITE 500			EXAMINER		
			LE, HOA T		
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER	
WASHINGTO	11, DC 20007		1773		
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			MAIL DATE	DELIVERY MODE	
•		•	01/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No.	Applicant(s)	
10/811,628	YADAV ET AL.	
Examiner	Art Unit	
H. T. Le	1773	

Advisory Action	10/811,628	YADAV ET AL.		
Before the Filing of an Appeal Brief	Examiner	Art Unit	_	
	H. T. Le	1773		
The MAILING DATE of this communication appe	ars on the cover sheet with the o	orrespondence address	_	
THE REPLY FILED 16 November 2006 FAILS TO PLACE THI		*		
 The reply was filed after a final rejection, but prior to or of this application, applicant must timely file one of the folloplaces the application in condition for allowance; (2) a No. (3) a Request for Continued Examination (RCE) in completely following time periods: 	n the same day as filing a Notice o wing replies: (1) an amendment, a ptice of Appeal (with appeal fee) in liance with 37 CFR 1.114. The repl	f Appeal. To avoid abandonment of ffidavit, or other evidence, which compliance with 37 CFR 41.31; or		
a) The period for reply expiresmonths from the mailing d b) The period for reply expires on: (1) the mailing date of this Adv event, however, will the statutory period for reply expire later the	isory Action, or (2) the date set forth in the an SIX MONTHS from the mailing date of	the final rejection.		
Examiner Note: If box 1 is checked, check either box (a) or (b). MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f) Extensions of time may be obtained under 37 CFR 1.136(a). The date on been filed is the date for purposes of determining the period of extension a CFR 1.17(a) is calculated from: (1) the expiration date of the shortened sta above, if checked. Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL). which the petition under 37 CFR 1.136(a ind the corresponding amount of the fee. atutory period for reply originally set in the) and the appropriate extension fee have The appropriate extension fee under 37 final Office action; or (2) as set forth in (b)	١	
2. The Notice of Appeal was filed on A brief in compof filing the Notice of Appeal (37 CFR 41.37(a)), or any expine a Notice of Appeal has been filed, any reply must be AMENDMENTS	xtension thereof (37 CFR 41.37(e)) be filed within the time period set fo	, to avoid dismissal of the appeal. rth in 37 CFR 41.37(a).		
3. The proposed amendment(s) filed after a final rejection, (a) They raise new issues that would require further co (b) They raise the issue of new matter (see NOTE belo (c) They are not deemed to place the application in bel appeal; and/or	nsideration and/or search (see NO w);	TE below);		
(d) They present additional claims without canceling a NOTE: <u>See attached "Detailed Advisory Action"</u> . (ected claims.		
4. The amendments are not in compliance with 37 CFR 1.1	- · · ·	ompliant Amendment (PTOL-324).		
 5. Applicant's reply has overcome the following rejection(s) 6. Newly proposed or amended claim(s) would be a the non-allowable claim(s). 		timely filed amendment canceling		
 7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro The status of the claim(s) is (or will be) as follows: 	☑ will not be entered, or b) ☐ w vided below or appended.	ill be entered and an explanation of		
Claim(s) allowed: <u>None.</u> Claim(s) objected to: <u>None.</u> Claim(s) rejected: <u>1-3,5,8-20 and 33-44.</u> Claim(s) withdrawn from consideration: <u>4,6,7 and 21-32.</u>				
AFFIDAVIT OR OTHER EVIDENCE				
8. The affidavit or other evidence filed after a final action, by because applicant failed to provide a showing of good an and was not earlier presented. See 37 CFR 1.116(e).	ut before or on the date of filing a N d sufficient reasons why the affida	lotice of Appeal will <u>not</u> be entered vit or other evidence is necessary		
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to c showing a good and sufficient reasons why it is necessar	overcome <u>all</u> rejections under appe y and was not earlier presented. S	al and/or appellant fails to provide a see 37 CFR 41.33(d)(1).		
10. ☐ The affidavit or other evidence is entered. An explanatio REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after e	entry is below or attached.		
11. The request for reconsideration has been considered bu See attached "Detailed Advisory Action".	t does NOT place the application i	n condition for allowance because:		
12. Note the attached Information Disclosure Statement(s). 13. Other:	(PTO/SB/08) Paper No(s)	H. T. Le Primary Examiner Art Unit: 1773		

U.S. Patent and Trademark Office PTOL-303 (Rev. 08-06)

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DETAILED ADVISORY ACTION

Response to Amendment

1. The amendment to the claims filed on November 16, 2006 has not been entered because the claims as amended raise issues of new matter and scope of enablement as follows:

<u>Claim 2</u>: The specification as originally filed provides no support for a <u>non-stoichiometric</u> material having an aspect ratio of greater than 5. The support for an aspect ratio of greater than 5 was found in Example 8 where tungsten oxide nanomaterial is described. However, tungsten oxide as described is not a non-stoichiometric material.

Claims 16-18: The specification as originally filed provides no support for a non-oxide nano-material having an aspect ratio of greater than 5. The support for an aspect ratio of greater than 5 was found in Example 8 where tungsten oxide nanomaterial is described. However, tungsten oxide is an oxide material.

Claims 33-34: The specification as originally filed provides no support for a chalcogenide nano-material having an aspect ratio of greater than 5 and less than 25. The support for an aspect ratio of greater than 5 was found in Example 8; however the upper limit of aspect ratio described therein is 15, not 25.

Response to Arguments

2. The argument against the Xin article is on the ground that the Xin article only discloses quantum dots while the claims are now amended to recite an aspect ratio of greater than 5. This argument is not persuasive because it's based on an amendment that has not

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been entered as indicated in paragraph 1 above. Thus, the rejection based on the Xin article is maintained. However, rejections based on the other four articles (namely, Schoonman, Margrave, Kian Ping Loh, and Lee &Chen) are hereby withdrawn.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, nanomaterials of aspect ratio of at least 2 or at least 5 must be shown. Here, only spherical nanomaterials are shown in the drawings. It should be noted that no new matter should be entered in corrected drawings.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required

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corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. T. Le whose telephone number is 571-272-1511. The examiner can normally be reached on 10:00 a.m. to 6:30 p.m., Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on 571-272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

H. T. Le

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Primary Examiner Art Unit 1773